Notebook, N-01-08-12

Pyrometers

		(10)	(100)
(new) I	80°	A 47.9	B 101.6
II	70°	A 95.8	B 57.9
III	50°	A 95.8	B 56
IV	80°?	A 94.4	B 55.9
V	Broken.		

Temp Resistance.

I works old wires only
B (100) 107.6 ~.7
with short heavy
copper extensions
101.4

IV above I and at same distance from front wall

I	IV	III	Thermo
356	464	483	378°
			422
414			
581			
650			520
713			536
927			564
650.1			

I	IV	III	I
	to A 104.1 B 43	105.7	555
			558
			572
87.5			582
60.15			583

Pass of I and IV reversed: I above IV

60.0
93#

569

BX2.1
A 104.5

575
576

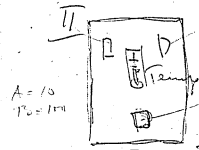
A 105.65
3.99

576
579

from 000 towards
under heading T
At he subtracted 18-22°
(at 200 : 22 , at 500 18

Initial Rdg. of mag
Pyrometers (~ 45 and 102

B)



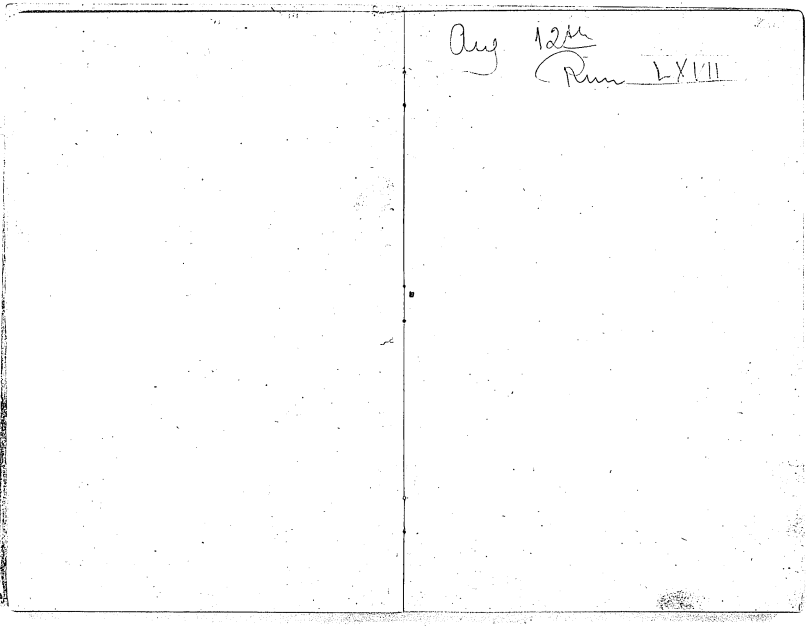
95.5
88.4
57.9A

157.1A
47.1B

44.8B
102.9A

102.8
85

X04
X05
X07
X07
X07
X05
X07


Aug 12th
Rum LXVII

Aug 14th Run LXVIII

Pyrometers I & II are in some way broken — certainly caused by the heating.

Pyrometer III shows in the opening below the drum and is protected against radiation heat by a [illegible] plate and a similar plate of sheet asbestos

III shows.

@ 58.2 with 100 and
A 95.9 " 10 at 72½ "

There is also some
used an additional
absorber containing
Chromosal B soaked in H_2SO_4
aka also Chromotropeamine
while Absorbit I has a
very similar column of only
Difference of Absorbit I
free from Rubber connections
with Hoses attached

12 lbs 10.2 oz

12 lbs 10.8 oz

Second absorber free

Hlbs 11.4 oz

10 : 5.6

2.55	-	35.8	
3.05	-	32.8	
10	-	30.3	
25	-	28.6	1.9 11.3
35	-	31.6	
45	-	31.4	
50	-	31.1	

3.55	-	31.1	
11. —	-	31. -	12.9 15 oz
05	-	30.2	
10	-	30. -	
15	-	29.7	15 1/2 oz
20	-	29.3	
25	-	29. -	
30	-	29.1 - 13 8	2 1/2 oz
35	-	29. -	
12 6 19/10	40	- 28.8 -	12.15.9 (added 1/2 oz)
#1 12.15.7	45	- 28.5	
12.15.5	50	- 28.8	
(#2) 10.4.2.5	-	29.1 - 13 8	
#2) 10.6.8	05	- 27.2	
10.7.8	10	- 26.7	
	15	- 26.5 - 13 8	1.3 oz
	20	- 26.4	
	25	- 26.4	1.7
	30	- 26.2	
	35	- 26.0	
	40	- 25.8	2.0 oz
	45	- 25.8	
	50	- 25.8	
	55	- 25.2	2.6
6. —	—	25. -	3.0
	15	- 24.8	13.7.4
82-10-82	30	- 24.8	
	40	- 24.9	
	50	- 25.3	
7. 05	-	24.8	

10 – 21.8 – 1386 oz.
20 – 25.6 –
30 – 25.4 – 13.7
40 – 25.8 –
50 – 25.6
60 – 25.9 – 13.8 oz.
10 – 26.4
20 –

Out out.

Absorbers: I 4 @ 12,5 oz.
II 8 @ 0,5 oz.

without conn. I 10 @ 0,5 oz.
II

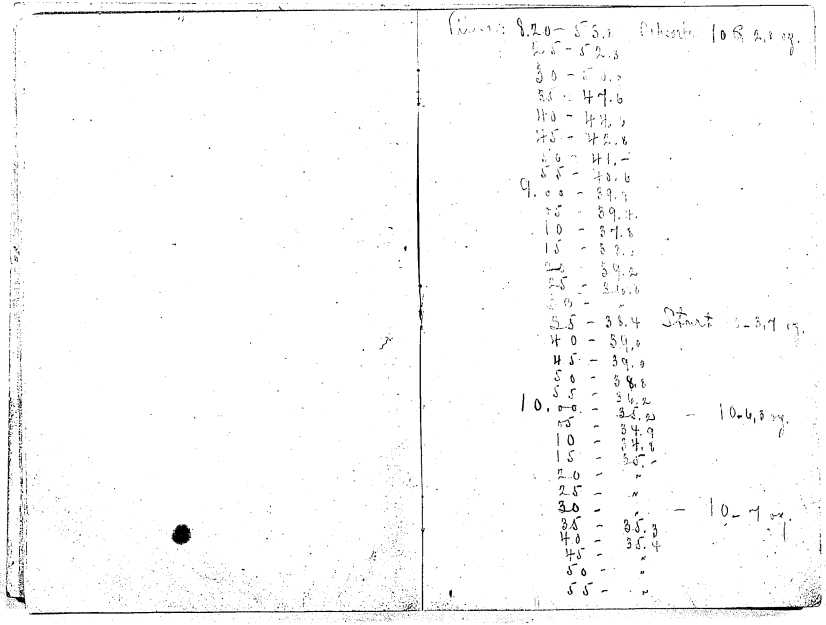
with conn. I 10 @ 2,8 oz.
II 8@1,4 oz.

NaOH & Coke does not work as absorbing device. II 8@1,5

Aug. 15th. Run LXIX.

5 lbs of Tests from Sweden
Several little improvements on Drum
Temp to be kept at 750 – 785 °F
i.e. 33.3 – 33.5 on Pyrometer III

For absorbing gases is used 2 bottles of coke – dried by ourselves – at about 600 – 650 °F
Drum revolves 3 times in 1 minute

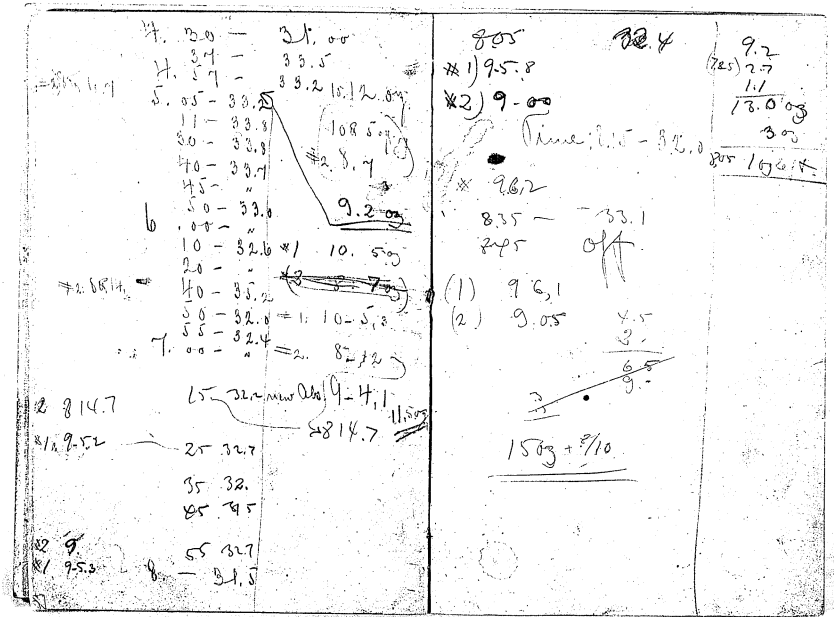


Tiura: 8.20 – 55.1 Pikeur: 108 2.1 sq.
45 – 52.3
50 – 57.2
55 – 47.6
40 – 42.2
45 – 42.8
50 – 41.–
55 – 40.6
9. 00 – 39.3
05 – 39.4
10 – 37.8
15 – 39.2
20 – 39.2
25 – 36.6
30 –
35 – 38.4 Start 3-3.1 sq.
40 – 39.0
45 – 39.0
50 – 38.8
55 – 36.2
10. 00 – 35.2 – 10-6.3 sq.
05 – 34.9
10 – 34.8
15 – 35.–
20 – "
25 – "
30 – " – 10-7 sq.
35 – 35.3
40 – 35.4
45 – "
50 – "
55 – "

June 11.

	00	35.4	108 11.1 mg.
	05	"	
	10	"	
	15	35.5	
	20	"	
	25	35.2	11.8
	30	36.5	
	35	"	
	40	35.7	
	45	35.4	
	50	"	
	55	34.3	
12.	00	34.1	8.8
	05	34.-	
	10	34.-	
	15	34.8	
	20	35.5	
	25	34.2	
	30	34.-	8.2
	35	33.8	108 9.1
	40	"	
	45	38.5	
	50	33.4	
	55	33.4	9.4
1.	00	33.3	
	05	"	
	10	34.2	
	15	35.2	9.7
	20	35.5	
	25	"	
	30	"	
	35	"	

Rise of temperature for 10 min

June 1.

	40	34.2	102 10.1
	45	34.0	10.2
	50	34.8	
	55	35.4	
2.	00	39.0	10.0
	05	40.-	
	10	40.6	
	15	39.8	
	20	40.2	
	25	38.6	
	30	34.4	
	35	34.2	
	40	36.6	
	45	32.6	
	55	30.8	
3.	00	32.2	
	05	32.8	10.7
	10	33.0	
	15	33.4	
	20	36.0	
	25	35.4	
	30	34.8	
	35	33.6	
	40	33.0	
	45	35.4	
	50	34.7	
	55	33.4	
4.	00	34.3	108 11.3
	05	34.-	
	10	33.5	
	15	33.1